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ABSTRACT OF THE DISCLOSURE

The invention includes antibodies that provide superior anti-coagulant activity by binding native human TF with high affinity and specificity. Antibodies of the invention can effectively inhibit blood coagulation *in vivo*. Antibodies of the invention can bind native

5   human TF, either alone or present in a TF:FVIIa complex, effectively preventing factor X or FIX binding to TF or that complex, and thereby reducing blood coagulation. Preferred antibodies of the invention specifically bind a conformational epitope predominant to native human TF, which epitope provides an unexpectedly strong antibody binding site. Also provided are humanized antibodies and fragments thereof that bind to the TF.

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